

# nuts & legumes



## controls & integration

- » Electrical Design
- » Installation
- » Commissioning
- » SCADA
- » HMI & Network System
- » Remote Control

### complete visibility

Simplify processes and maximise traceability of your entire line with our world class range of electrical control systems and integration solutions.

- Collect data and monitor your production line closely with software that uses customised interfaces, dashboards and reports
- Keep your equipment running efficiently to ensure safe food handling at all times with advanced automated electrical design systems
- Get site support, project management and training services all as part of your complete controls & integration package

**“TNA’s turnkey solutions and project management services give you an on-time, on-budget, high-quality installation that’s stress-free from start to finish”**



## processing

- » Frying and Cooking
- » Cooling

### built-in efficiency

Process any type of nut or legume using TNA’s state-of-the-art frying and roasting equipment that boosts production efficiencies.

- Get more heat per unit with innovative roaster designs that use a serpentine heat exchanger as well as other built-in heating technologies
- Customise your frying and roasting solutions to fit a wide range of capabilities that maximise your cost savings while minimising product loss during processing
- Lower your production costs with advanced oil management systems that keep oil clean and refreshed for safe, extended use
- Safely cool products using patented impingement technology and reduce footprint and conveyor length for time-sensitive products like cashews and other nuts

## seasoning & coating

- » Powder
- » Oil
- » Slurry
- » Combination

### enhanced flavour

Boost flavours in products like pistachios, peanuts, cashews and other nuts, as well as popular legume snacks like chickpeas.

- Use oil to create a variety of flavour options for consumer tastes based on geographic location, season or other trends
- Get the perfect ratio of oil to seasoning for each nut or legume for the perfect look, texture and taste with TNA’s advanced spraying systems
- Incorporate solutions like spinning disc spraying systems to ensure consistent coverage on every batch of product regardless of size or shape
- Prevent clogging with low-maintenance designed nozzles that are easy to clean and minimise downtime

## distribution

- » Horizontal Motion
- » Belt Conveyors
- » Vibratory Motion
- » Elevation Conveyors

### swift movement

Quickly and efficiently move product throughout your entire manufacturing line and prevent contamination.

- Prevent seasoning and oil from building up and make cleaning easier with low-maintenance, rigidised and stainless steel construction
- Turn production volume up, while keeping production noise at a minimum with low-frequency, long-stroke drives
- Create the perfect blend of mixed nuts using TNA's state-of-the-art blending systems

## weighing & packaging

- » Weighing
- » Metal Detection
- » Vertical Form Fill & Seal Packaging
- » Verification

### perfect mix

TNA is the benchmark in performance with the shortest vertical product transfer from the scale to the pack for packaging nuts and legumes.

- Weigh any variety of nuts or legumes with precision accuracy to ensure the right mix is in every package at speeds of up to 200 bags per minute
- Minimise oil and seasoning build-up on TNA's all-stainless steel equipment for best hygiene results
- Produce a variety of bag sizes with flexible jaw sizes at top speeds, to keep up with food trends like portion control
- Ensure the highest level of sustainability with the world's smallest footprint and highest speeds in the nuts and legumes industry using 20% less energy than competitor systems



**“Changeovers are quick and cleaning is simple with easy-to-access and remove parts”**



**“Keep your products in line with regional safety regulations using TNA's patented metal detection and verification solutions”**

controls integration & SCADA | materials handling  
processing | freezing & cooling | coating distribution  
seasoning | weighing | packaging | metal detection  
verification | project management | training

## TNA is your single source supplier for processing and packaging solutions

Global demand for almonds, macadamias, pumpkin seeds, cashews, chickpeas and other grab-and-go, high-protein snack foods increases more and more each year. For over 30 years, TNA and its family of brands has helped food manufacturers capitalise on these growing opportunities. With more than 14,000 installations in over 120 countries, TNA's complete line of solutions brings simplicity, flexibility and performance to nut and legume production lines everywhere - and can do the same for you! To make the most of your opportunities, it's more important than ever to partner with a supplier who can offer innovative and modular solutions to meet today's consumer demands including:

- Snacking throughout the day with healthy options such as mixed nuts
- Special seasonings and flavours that create a snacking experience
- Catering to younger and multicultural populations who are increasing their consumption of nuts

As your partner, TNA offers complete, turnkey solutions from a single, global source that also gives you the power and control to boost production with:

- Improved line efficiency with integrated product controls and SCADA reporting
- Maximised use of oil during processing with advanced filtration technology
- Increased weighing and packaging speeds with precision accuracy
- Reduced energy footprint for improved sustainability
- Minimised downtime to maximise the potential of your production line

All of this in addition to our my-tna 360° customer care programme that's available to you 24/7.

**Find start-to-finish solutions for nuts and legumes or just about any food application.**

